



Bilkent University
Department of Computer Engineering

CS 319 - Object-Oriented Software Engineering
Fall 2023

Deliverable 6

Final Report

Team 5

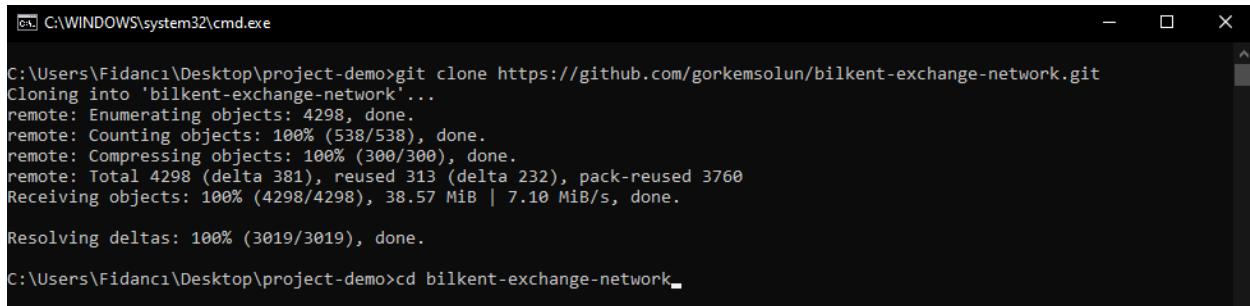
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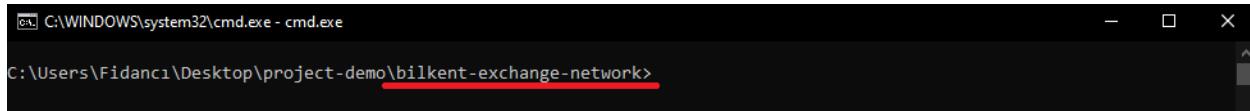
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Build Instructions

1. Open cmd (Open the Start menu or press the Windows key + R. Type cmd or cmd.exe in the Run command box. Press Enter).
2. Using `cd` command, navigate through a desired directory.
3. Use `git clone https://github.com/gorkemsolun/bilkent-exchange-network.git` to install the required files.
4. Once the installation is complete, change your directory to “*bilkent-exchange-network*” using `cd` command (**Terminal must have been opened on the specified root, which should end with \bilkent-exchange-network!**).



```
C:\Users\Fidancı\Desktop\project-demo>git clone https://github.com/gorkemsolun/bilkent-exchange-network.git
Cloning into 'bilkent-exchange-network'...
remote: Enumerating objects: 4298, done.
remote: Counting objects: 100% (538/538), done.
remote: Compressing objects: 100% (300/300), done.
remote: Total 4298 (delta 381), reused 313 (delta 232), pack-reused 3760
Receiving objects: 100% (4298/4298), 38.57 MiB | 7.10 MiB/s, done.
Resolving deltas: 100% (3019/3019), done.
C:\Users\Fidancı\Desktop\project-demo>cd bilkent-exchange-network
```



```
C:\Users\Fidancı\Desktop\project-demo>
```

5. Type the following commands in order:

```
cd frontend
npm install
cd..
cd backend
npm install
```

6. Close the terminal.

You have now successfully configured the dependencies, paving the way for the next phase: running the project.

7. Using the same shortcut (Windows key + R) twice, open two separate terminals.

8. Navigate to the “*bilkent-exchange-network*” directory using `cd` command (Once again, make sure that both of the terminals are opened on the same root before continuing. Both of the roots should end with \bilkent-exchange-network!).

9. From one of the terminals type:

```
cd frontend  
npm run dev
```

10. And from the other terminal type:

```
cd backend  
npm run dev
```

WHILE TRYING OUT THE PROJECT DO NOT CLOSE NEITHER OF THE LAST TWO TERMINALS

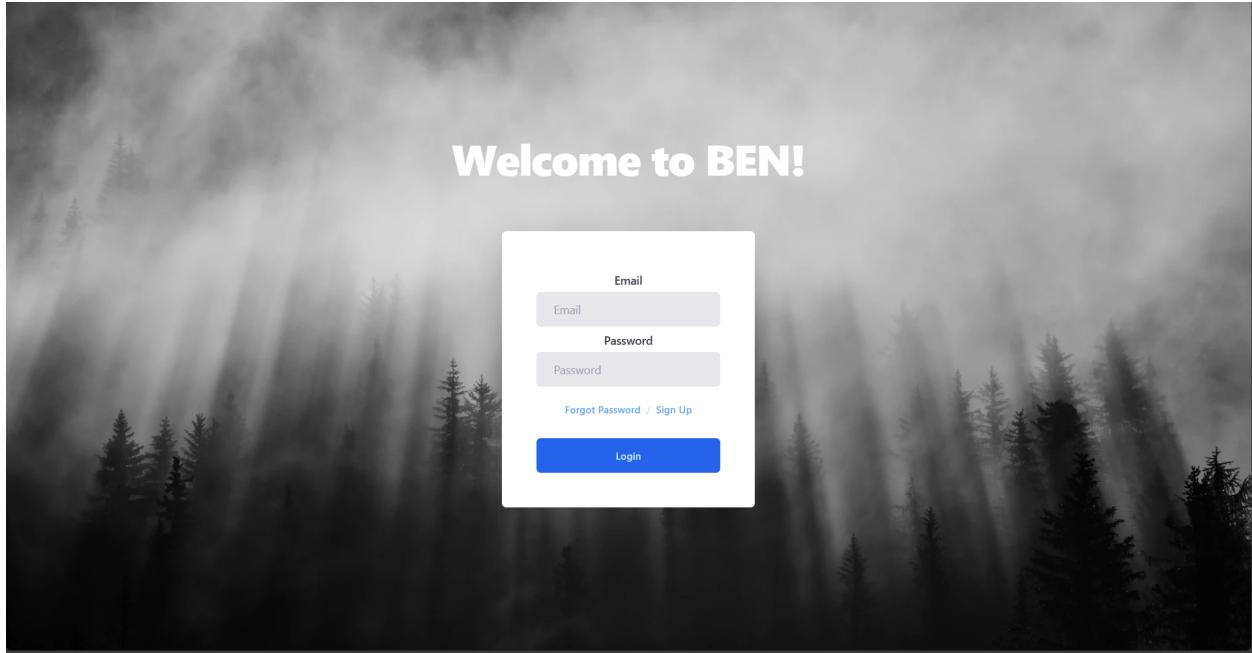
11. Open up your desired browser and type “`http://localhost:5000`” into the address bar.

12. Either log in to the system with the credentials provided in the directory or create an account for yourself.

Enjoy and BEN-d the rules of social networks.

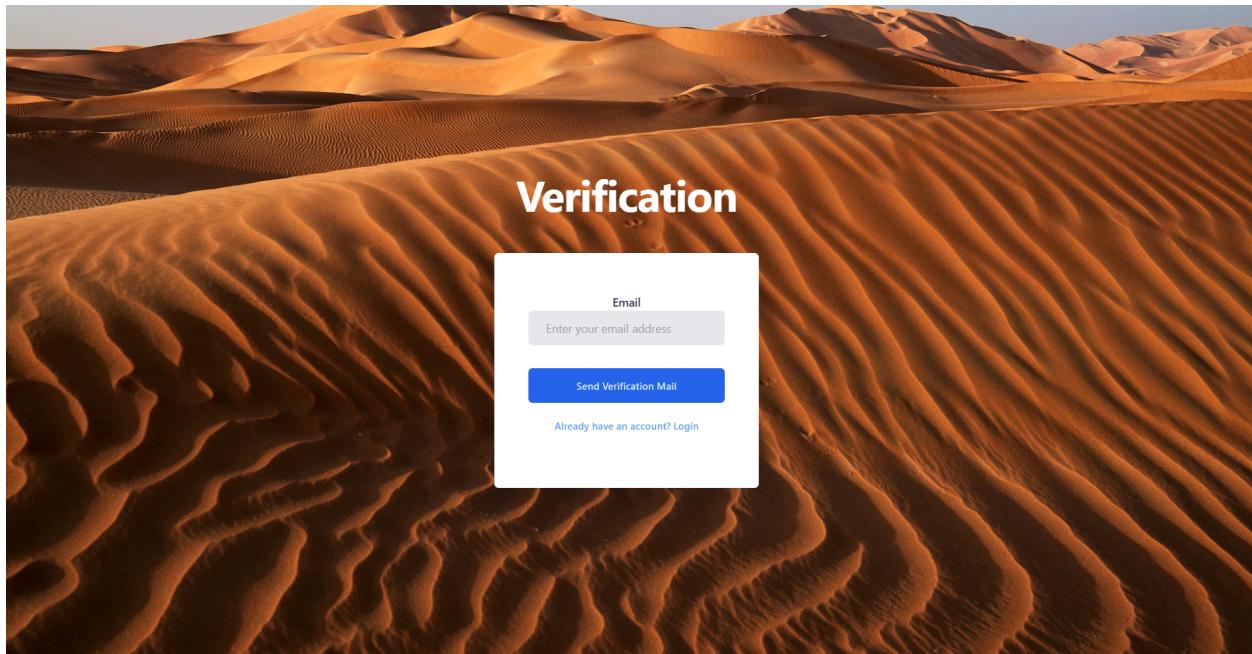
User Manual

Login



Users can log into the system through the login page. If the login is successful, the user is directed to the application. Link: [Bilkent Exchange Network](#)

Signup



Signup is done by entering a valid email address. Then, an email will be sent containing a verification page that will enable users to choose a username and password.

The image shows a screenshot of an email client interface. At the top, there is a toolbar with various icons: back, forward, reply, delete, etc. Below the toolbar, the subject of the email is "Verify your email." and it is in the "Inbox". The sender's name is "bilkent.exchange.network@gmail.com" and the recipient is "to me". The body of the email contains a message: "Hi , please verify your email by clicking this link" followed by a blue underlined link labeled "Verify Your Email". At the bottom, there are two buttons: "Reply" and "Forward".

Verify your email. Inbox ×

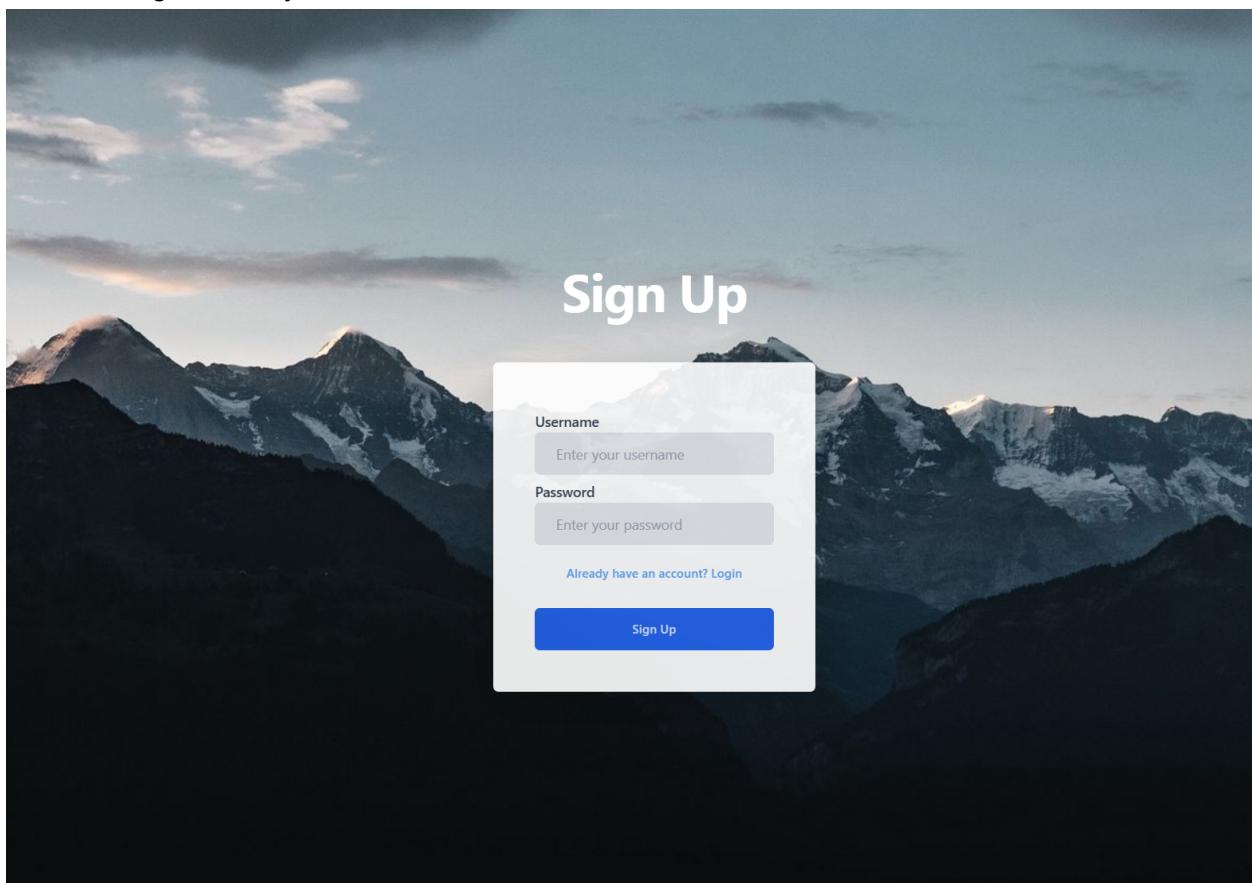
 bilkent.exchange.network@gmail.com
to me ▾

Hi , please verify your email by clicking this link

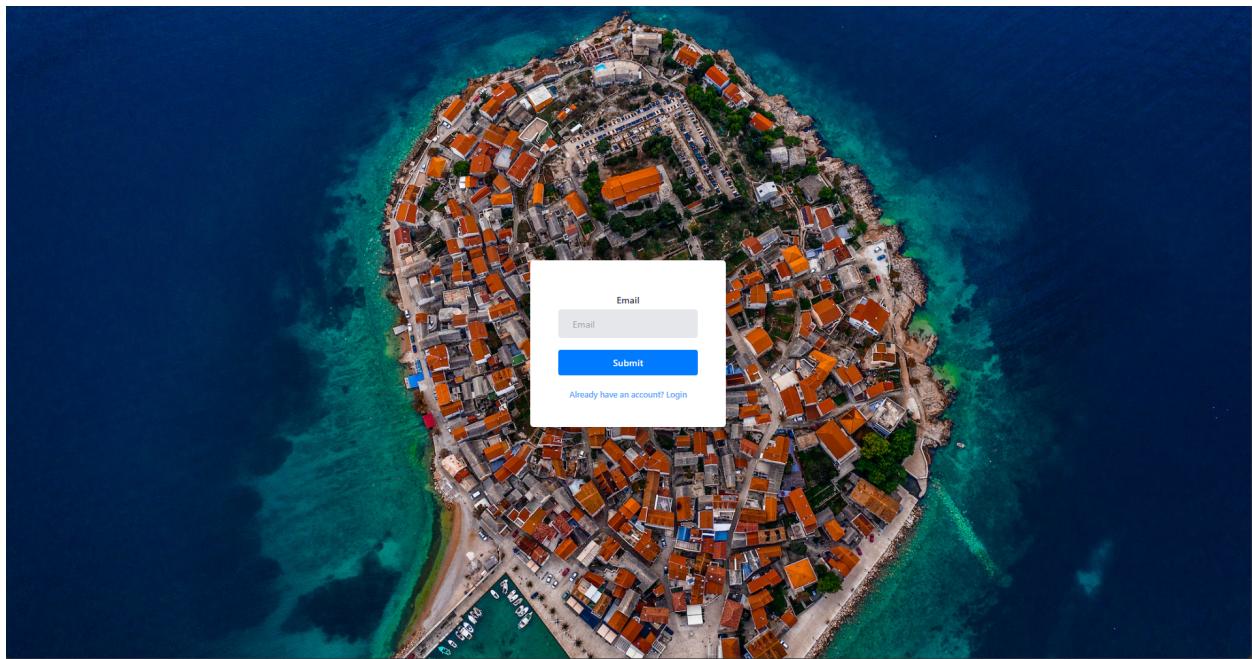
[Verify Your Email](#)

Reply Forward

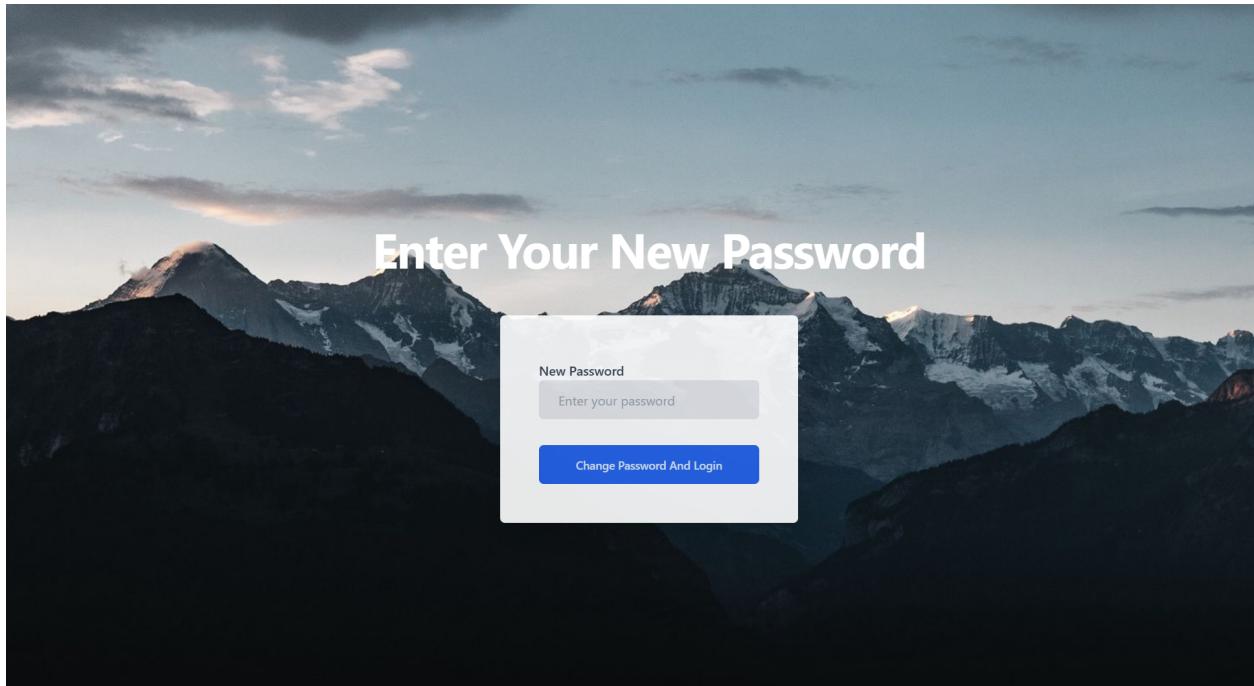
After clicking the Verify Your Email link



Forgot Password



After clicking the Forgot Password on the Login, the user will be directed to the Forgot Password and will be asked to enter their email. Then, a link will be sent to enable them to change their password.



Secondhand

The screenshot shows the Bilkent Exchange Network website's Secondhand section. At the top, there are navigation links: Secondhand, Lost & Found, Donate, Borrow, Section Exchange, and Forum. On the far left, a sidebar provides filtering options: Books, Electronics, Home, Lecture Materials, Clothes, Hobbies, Other, Min Price, Max Price, Earliest Date (mm/dd/yyyy), Latest Date (mm/dd/yyyy), Page Number (set to 1), Posts per Page (set to 10), and buttons for Reset and Filter. A search bar at the top center contains the placeholder "Search...". To the right of the search bar are "Sort By" and "Create Post" buttons. The main content area displays five items:

- BASYS-3** (Electronics): An Arduino-like board connected to a laptop displaying the Windows desktop. It is labeled "Almost never used, completely working" and has 3800 views.
- Othello** (Books): A painting of Othello, labeled "well condition" and has 1506 views.
- I sell my bike** (Hobbies): A silver road bike with red accents, labeled "no bargaining" and has 2000 views.
- GOD BLESS AMERICA** (Electronics): A graphic featuring the Statue of Liberty and the text "GOD BLESS AMERICA" in red, white, and blue.
- A partially visible item with a placeholder image and a "Books" category label.

After logging in, the user can go to Secondhand. Link: [Bilkent Exchange Network](#). Here, the user can set the filtering options to the left, sort, and search from the upper search bar. Here, the user can also create a post and save the existing ones for later. To see a post, the user can click the details button.

Creating a secondhand post interface is as follows.

The screenshot shows a web-based application for creating secondhand posts. At the top, there is a navigation bar with tabs: Secondhand, Lost & Found, Donate, Borrow, Section Exchange, and Forum. A green button labeled "Create Post" is located in the top right corner. Below the navigation bar, there is a search bar and a "Sort By" dropdown. A modal window is open in the center, prompting the user to enter details for a new post. The modal fields include:

- Title: Enter title
- Description: (Empty text area)
- Price: (Empty input field)
- Category: Books
- Image: Choose File | No file chosen

At the bottom of the modal is a blue "Create Post" button. In the background, there are other posts visible, such as one for a "BASYS-3" item and another for a "I sell my bike".

After clicking the details button of a post.

1

Bilkent Exchange Network

Report

emir

Reputation: Joined At: 2023-12-17

150₺

well condition

Category: Books Date: 2023-12-17

Secondhand Lost & Found Donate Borrow Section Exchange Forum

Othello



WILLIAM SHAKESPEARE
OTHELLO

KARİNN İLKULU

The post details show the image, poster, description, price, date, and joined at. Here, the user can also report the post via the report button.

The report post interface is as follows.

The screenshot shows a dark-themed web application for the Bilkent Exchange Network. At the top, there is a navigation bar with links for "Secondhand", "Lost & Found", "Donate", "Borrow", "Section Exchange", and "Forum". The main content area features a listing for a book titled "OTHELLO" by William Shakespeare. The listing includes a thumbnail image of the book cover, which depicts a woman's face. To the right of the book image, there is a user profile box for "emir" with a checkmark icon. The profile shows a reputation of 150t, joined at 2023-12-17, and a category of Books. Below the profile, the price is listed as 150t and the condition as well condition. A modal dialog box is overlaid on the page, prompting the user to "Reason for reporting this post..." with two buttons at the bottom: "Report" (red) and "Cancel" (blue).

If the user creates the post, the user can edit and delete the post.

The screenshot shows a user profile for 'ben' with a blue circular icon featuring a globe and the text 'Bilkent Exchange Network BEN-ding the Rules'. The user has 1 post, a reputation of 99%, and joined on 2023-12-17. The post is titled 'Selling ben' and is in the 'Lecture Materials' category, dated 2023-12-17.

The post delete is as follows.

A modal dialog box asks 'Are you sure you want to delete this post?' with 'Delete' and 'Cancel' buttons. The background shows the same post and user profile from the previous screenshot.

The post edit is as follows.

The screenshot shows a web-based application interface for managing posts. At the top, there is a navigation bar with links: Secondhand, Lost & Found, Donate, Borrow, Section Exchange, and Forum. Below the navigation bar, there is a search bar containing the text "Selling ben". To the right of the search bar are two buttons: "Edit Post" (blue) and "Delete" (red).

The main content area displays a post being edited. The post title is "Selling ben". The post content is "cs319 project for sale". The price is listed as "99€". The category is "Lecture Materials". There is a file input field with the placeholder "Choose File" and a message "No file chosen".

On the right side of the screen, there is a sidebar or another part of the application showing user information: Reputation: (green bar), Joined At: 2023-12-17, and a message count of 1 with an envelope icon. Below this, there is another section with the text "99€", "cs319 project for sale", Category: Lecture Materials, and Date: 2023-12-17.

Lost & Found

The user can navigate to Lost & Found from the navigation bar. Here, the users can see the posts marked as lost or found. There are also filter, search, and sort mechanisms. In contrast to the Secondhand page, there is no price, and lost and found options. The user can create a post, see the details of the post, and save the post for later.

The screenshot shows the Bilkent Exchange Network website with the "Lost & Found" tab selected. The interface includes a sidebar with filters for categories like Books, Electronics, Home, etc., and options for Lost and Found items. The main area displays three posts:

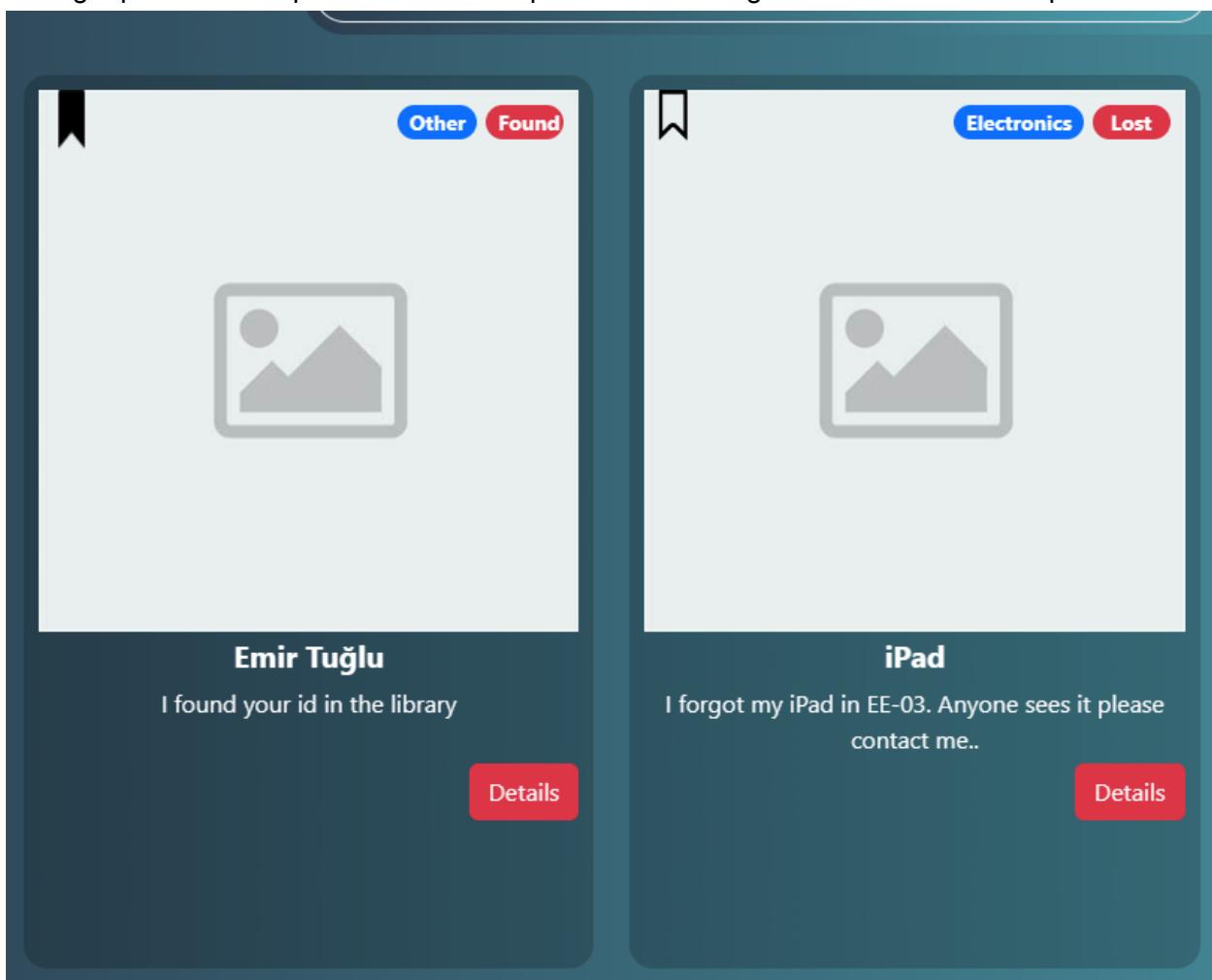
- Emir Tuğlu** (Found): I found your id in the library. [Details](#)
- iPad** (Lost): I forgot my iPad in EE-03. Anyone sees it please contact me.. [Details](#)
- God Bless Americas** (Lost): I found Americas. [Details](#)

At the top right, there are "Create Post" and "Sort By" buttons, along with a search bar and a mail icon.

Creating a post is as follows.

The screenshot shows a user interface for creating a post. At the top, there are navigation links: "Lost & Found", "Donate", "Borrow", "Section Exchange", and "Forum". Below these, a search bar contains the placeholder text "Search...". To the right of the search bar is a "Sort By" dropdown and a green "Create Post" button. A modal window is open in the center, prompting the user to enter a title ("Enter title"), provide a description, and select a category ("Category: Books"). There are also options for "Lost" (radio button) and "Found" (radio button). An "Image" section includes a "Choose File" button and a message indicating "No file chosen". At the bottom of the modal is a blue "Create Post" button. In the background, a dark sidebar on the left displays a profile picture and the name "Emir Tuğlu" with the message "I found your id in the lib...". On the right, a post card is visible with the text "God Bless America" and a photo of the Statue of Liberty.

Saving a post. In the top left corner of the post there is a flag to save and unsave a post.



Details of a post.

Bilkent Exchange Network

Secondhand Lost & Found Donate Borrow Section Exchange Forum

God Bless Americas

[Edit Post](#) [Delete](#)

1

Reputation: Joined At: 2023-12-17

Lost

I found Americas

Category: Clothes Date: 2023-12-17



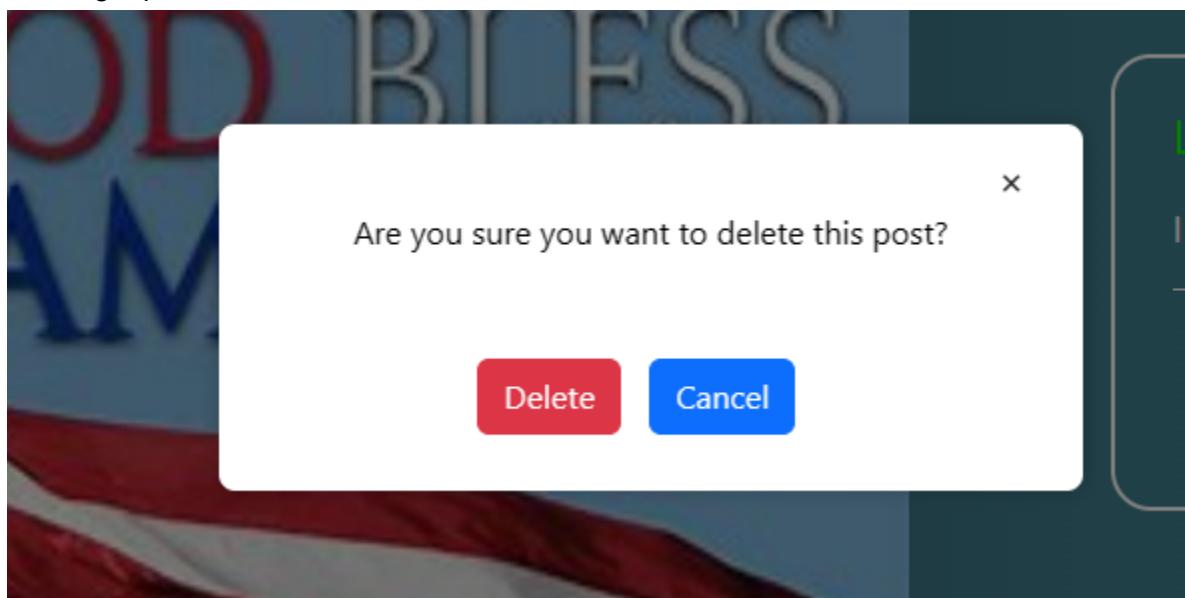
If the owner of the post is the user, then the user can edit and delete the post.
Editing a Lost & Found post.

The screenshot shows a mobile application interface. At the top, there is a navigation bar with tabs: "Secondhand", "Lost & Found" (which is the active tab), "Donate", "Borrow", "Section Exchange", and "Forum". Below the navigation bar, the main content area features a post titled "I Bless Americas". The post includes a thumbnail image of the Statue of Liberty and an American flag. The post details are as follows:

- Title:** God Bless Americas
- Description:** I found Americas
- Category:** Clothes
- Date:** 2023-12-17

On the right side of the post, there are two buttons: "Edit Post" and "Delete".

Deleting a post.



If the post can be reported if the post is not a user's post.

The screenshot shows a web interface for a community exchange network. At the top, there is a navigation bar with links for "Secondhand", "Lost & Found", "Donate", "Borrow", "Section Exchange", and "Forum". On the far left, there is a small profile icon with the number "1". In the center, the title "Bilkent Exchange Network" is displayed next to a globe icon. On the right side of the header, there is a mail icon.

The main content area features a post titled "iPad". To the right of the title is a "Report" button. Below the title is a large, empty white box where an image of the iPad would normally be displayed. A placeholder icon of a camera with a sun and mountains is visible in the center of this box.

To the right of the image area, there is a user profile box for "emir" with an envelope icon. It shows the user's reputation and joining date: "Reputation: Joined At: 2023-12-17".

Below the user info is a "Lost" section containing a message: "I forgot my iPad in EE-03. Anyone sees it please contact me..". Underneath this message are the item's details: "Category: Electronics" and "Date: 2023-12-17".

Donate

The user can navigate to Donate from the navigation bar. Here, the users can see the posts. There are also filter, search, and sort mechanisms. In contrast to the other pages, there is no price or lost & found options. The user can create a post, see the details of the post, and save the post for later.

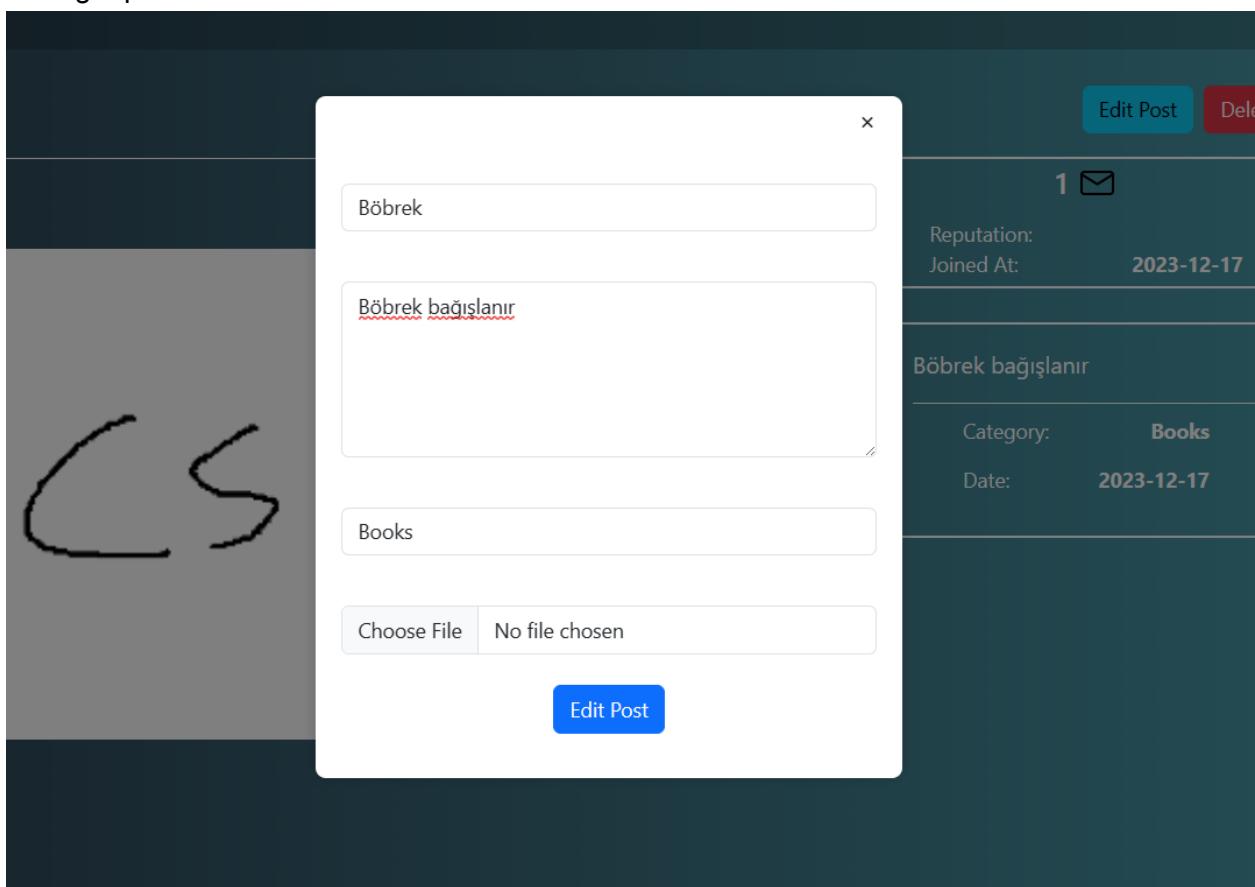
The screenshot shows the 'Donate' section of the Bilkent Exchange Network. At the top, there is a navigation bar with links for 'Secondhand', 'Lost & Found', 'Donate', 'Borrow', 'Section Exchange', and 'Forum'. On the far left, there is a sidebar with a 'Create Post' button and a list of categories: Books, Electronics, Home, Lecture Materials, Clothes, Hobbies, and Other. Below this is a date range selector for 'Earliest Date' (mm/dd/yyyy) and 'Latest Date' (mm/dd/yyyy). Underneath that are fields for 'Page Number' (set to 1) and 'Posts per Page' (set to 10), followed by 'Reset' and 'Filter' buttons. The main content area displays two posts. The first post is for 'Iliad' by Homer, with a thumbnail image showing the book cover. The second post is for 'Böbrek' (a type of dried fish), with a thumbnail image showing a handwritten note 'S 31'. Both posts have a 'Details' button at the bottom right.

The details of a post.

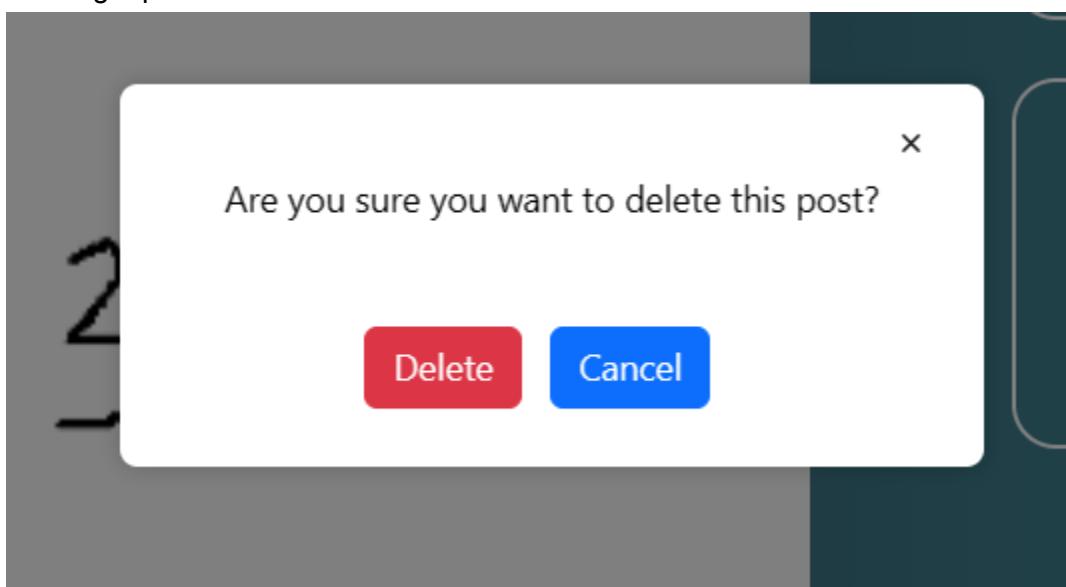
The screenshot shows a user profile for 'Böbrek' on the Bilkent Exchange Network. The profile includes a small profile picture, a reputation of 1, and a message icon. Below the profile, there are links for 'Secondhand', 'Lost & Found', 'Donate', 'Borrow', 'Section Exchange', and 'Forum'. A large white rectangular area contains the handwritten text 'CS319'. To the right of this area are two rounded rectangular boxes. The top box contains the text 'Böbrek bağışlanır', 'Reputation: 1', 'Joined At: 2023-12-17', and edit/delete buttons. The bottom box contains the text 'Category: Books', 'Date: 2023-12-17', and a link labeled 'Böbrek bağışlanır'.

If the user is the owner of the post, the user can edit and delete the post.

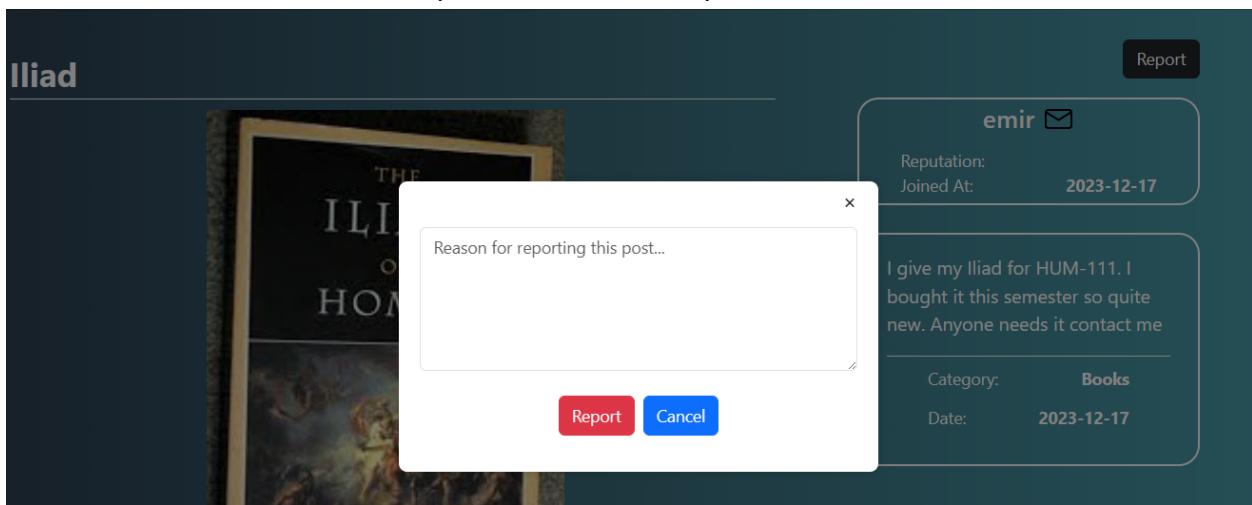
Editing a post.



Deleting a post.



If the user is not the owner of the post, the user can report it.



Borrow

The user can navigate to Borrow from the navigation bar. Here, the users can see the posts. There are also filter, search, and sort mechanisms. In contrast to the other pages, there is no price or lost & found options. The user can create a post, see the details of the post, and save the post for later.

The screenshot shows the "Borrow" section of the Bilkent Exchange Network. On the left, there's a sidebar with filters for "Books", "Electronics", "Home", "Lecture Materials", "Clothes", "Hobbies", and "Other". It also includes date range inputs for "Earliest Date" (mm/dd/yyyy) and "Latest Date" (mm/dd/yyyy), a "Page Number" input (1), and a "Posts per Page" input (10). At the bottom of the sidebar are "Reset" and "Filter" buttons. The main content area shows three posts: "CS-315" (Books), "Tost makinesi" (Books), and "Airfryer" (Other). Each post has a "Create Post" button and a bookmark icon. The "CS-315" post says "I need the CS-315 for the exam day. I'll give it back immediately." The "Tost makinesi" post says "nolur". The "Airfryer" post says "Yurtlarda airfryer neredeydi acaba - success modal çalışıyor?"

Details of a post.

The screenshot shows a post detail view. At the top left is the user handle "CS-315". To the right is a "Report" button. Below the handle is a text box containing the message: "I need the CS-315 for the exam day. i'll give it back immediately.". To the right of the message are two rounded rectangular boxes. The top box contains the user information: "emir" with an envelope icon, "Reputation: 100", and "Joined At: 2023-12-17". The bottom box contains the category information: "Category: Books" and "Date: 2023-12-17".

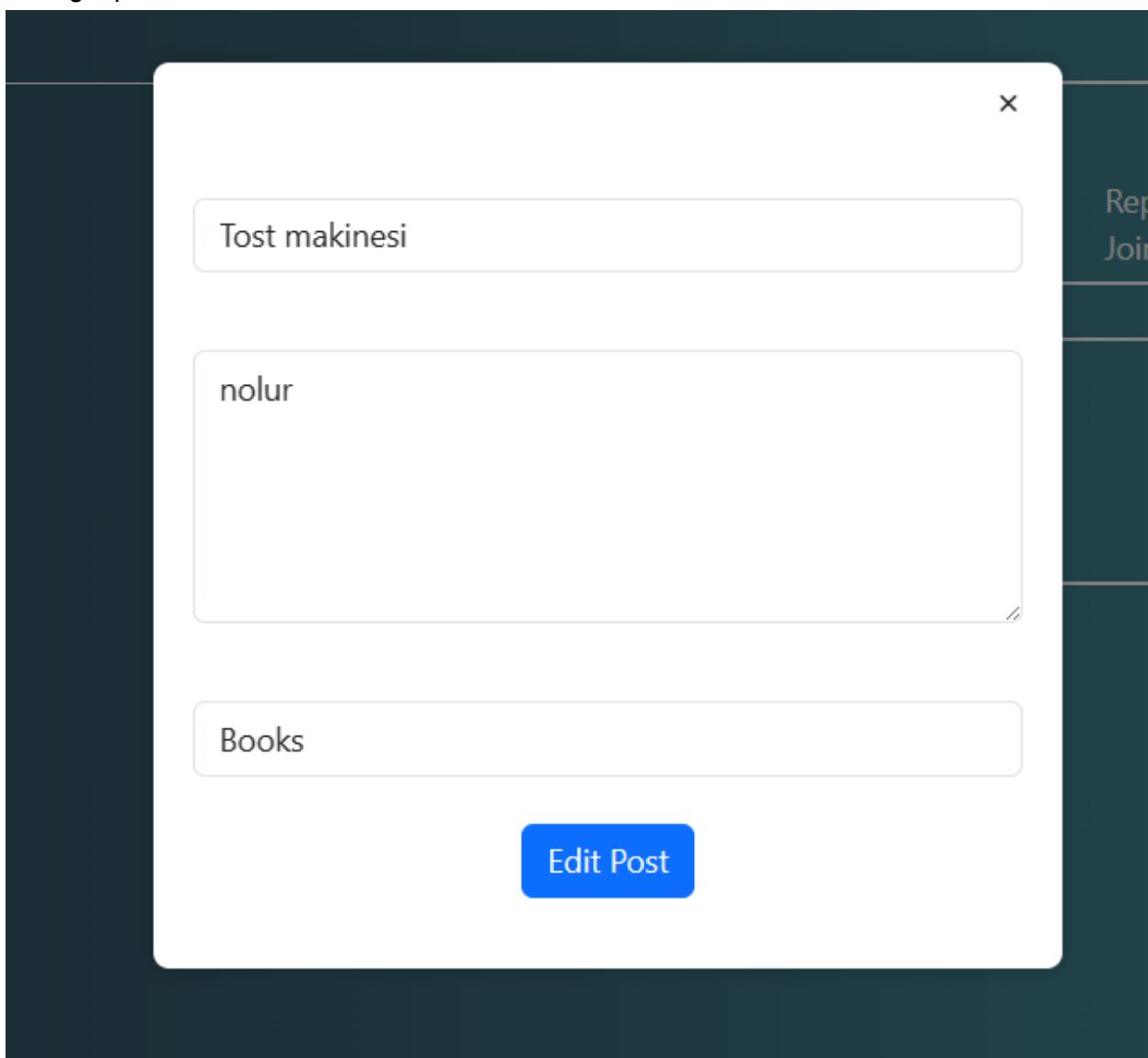
The user can report a post if the user does not own it.

The screenshot shows a reporting modal. It features a large text input field with the placeholder "Reason for reporting this post...". In the bottom right corner of the modal are two buttons: a red "Report" button and a blue "Cancel" button. The background of the modal is white, while the main application interface is dark.

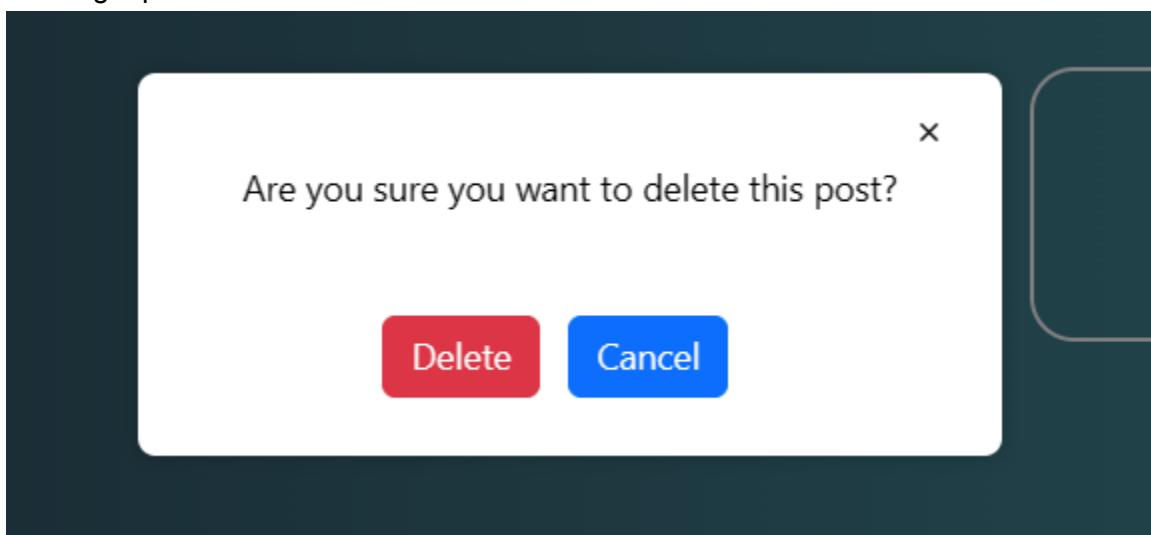
If the user owns the post, the user can edit and delete it.



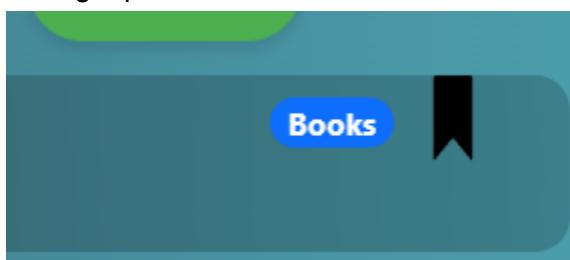
Editing a post.



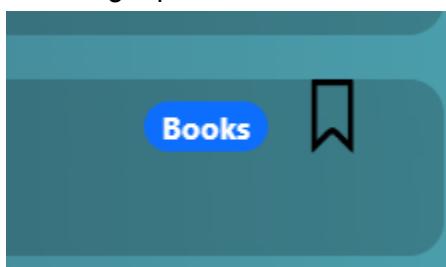
Deleting a post



Saving a post.



Unsaving a post.



Section Exchange

The user can navigate to Section Exchange from the navigation bar. Here, the users can see the posts. There are also filter, search, and sort mechanisms. In contrast to the other pages, there is no price, lost & found options, categories, and details of a post. The user can also filter through desired and offered courses. The user can create a post and save the post for later.

This screenshot shows the 'Section Exchange' section of the Bilkent Exchange Network. On the left, there is a sidebar with filters for 'Desired Course' (All), 'Offered Course' (All), 'Desired Section Number' (Section), 'Offered Section Number' (Section), 'Earliest Date' (mm/dd/yyyy), 'Latest Date' (mm/dd/yyyy), 'Page Number' (1), and 'Posts per Page' (10). Below these are 'Reset' and 'Filter' buttons. The main area has a search bar and a 'Sort By' dropdown. A green 'Create Post' button is located at the top right. The table lists six posts:

Username	Offered Course-Section	Desired Course-Section	DM	Date
emir	CS101-1	CS101-2		08:47 2023-12-17
emir	MATH230-4	MATH230-3		08:47 2023-12-17
emir	ENG401-1	ENG401-12		08:47 2023-12-17
emir	IAED101-2	IAED101-5		08:49 2023-12-17
yampiri	CHEM-1	CS-1		12:18 2023-12-17
efekn	CS-2	CS-1		13:08 2023-12-17

The user can delete and edit section exchange posts from their user profile.

This screenshot shows a user profile for 'gorkem'. The profile picture is a flag with 'GOD BLESS AMERICA' text. The handle is '@gorkem'. Below the profile, there is a table with user information: Description: gorkem, Email: gorkemkadir14@hotmail.com, and Joined at: 2023-12-17. Under the 'Posts' section, there is a single post titled 'SectionExchange:' with a 'Delete' and 'Edit' button. The post content is: offered Course: CHEM, offered Section: 1, desired Course: CS, desired section: 1.

Forum

The user can navigate to From from the navigation bar. Here, the users can see the posts. There are also filter, search, and sort mechanisms. The user can create a post and save the post for later.

This screenshot shows the Bilkent Exchange Network Forum page. At the top, there is a navigation bar with links for Secondhand, Lost & Found, Donate, Borrow, Section Exchange, and Forum. A search bar and a 'Create Post' button are also at the top. On the left, there is a sidebar with a user profile picture and name, followed by a sidebar menu with categories like Books, Electronics, Home, Lecture Materials, Clothes, Hobbies, and Other. Below that are date filters for Earliest Date (min/dd/yyyy) and Latest Date (mm/dd/yyyy), and a page number selector (Page Number 1, Posts per Page 10). At the bottom of the sidebar are 'Reset' and 'Filter' buttons. The main content area displays a list of posts:

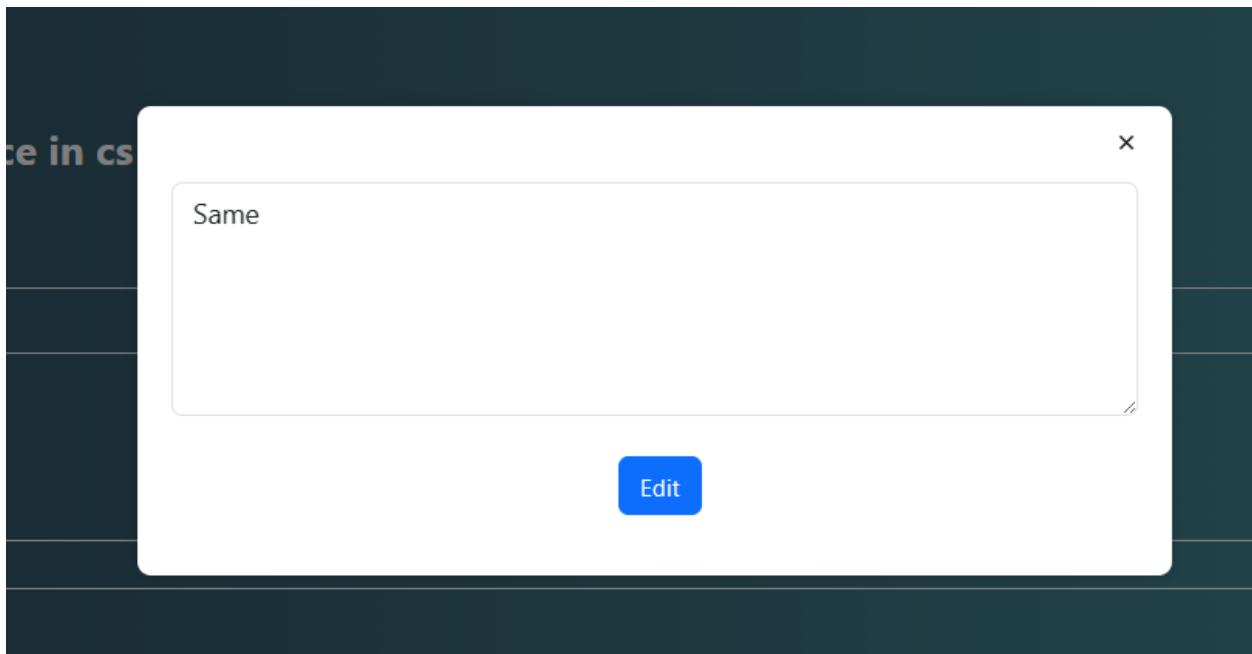
- I failed from attendance in cs101**
what can i do?
- Someone guides me**
who
- secondhand de details patlamış**
secondhand de details patlamış - editleyince success modal geliyor
- eray tüzün**
eray tüzün çok kral adam

Upon clicking a post, the user can see its details and entries.

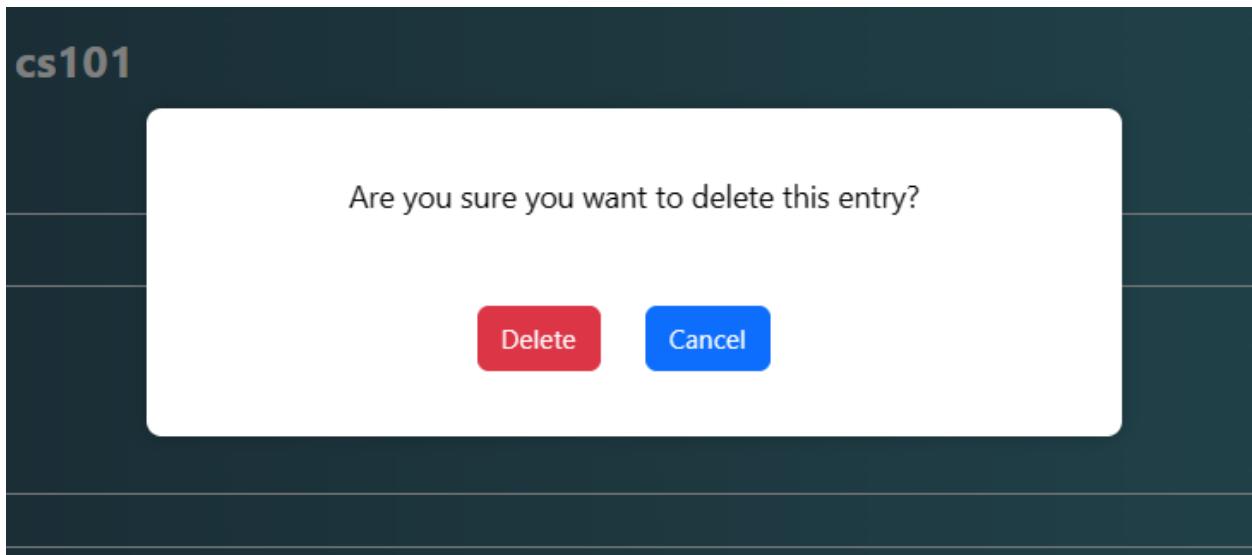
This screenshot shows a detailed view of a post in the Forum. The post is titled "I failed from attendance in cs101" and has the text "what can i do?". It was posted by a user named "emir" on 08:50 2023-12-17. Below the post, there are three replies:

- Reply by "emir" on 13:13 2023-12-17: "answer pls"
- Reply by "1" (with a user icon) on 13:49 2023-12-17: "Same" (with 'Edit' and 'Delete' buttons)
- Reply by "1" (with a user icon) on 13:50 2023-12-17: "Up" (with 'Edit' and 'Delete' buttons)

If the user is the owner of the entry, the user can change its content or delete it.
Editing an entry.



Deleting an entry.



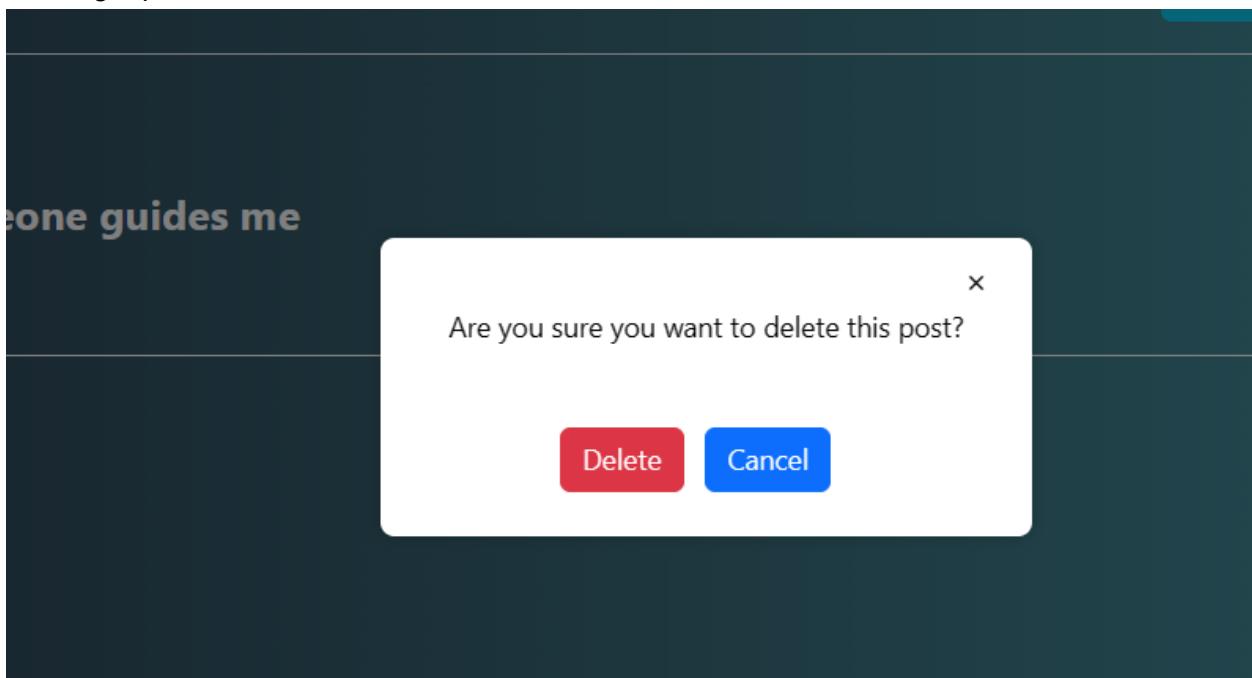
If the user is the owner of the post, the user can edit and remove the post.

The screenshot shows a dark-themed web interface for the Bilkent Exchange Network. At the top, there's a navigation bar with links for "Secondhand", "Lost & Found", "Donate", "Borrow", "Section Exchange", and "Forum". On the far left, a user profile icon with the number "1" is visible. In the center, the network's logo is displayed. On the right side of the header are icons for email and notifications. Below the header, a post card is shown. The post has a timestamp of "11:55 2023-12-17" and three buttons at the bottom right: "Edit Post" (blue), "Delete" (red), and "Reply" (green). The main content of the post is enclosed in a rounded rectangle and reads: "Someone guides me" followed by "who".

Editing a post.

This screenshot shows a modal window for editing the post. The modal has a white background and a close button ("x") in the top right corner. Inside, there are two text input fields: the top one contains the text "Someone guides me" and the bottom one contains "who". At the bottom of the modal is a blue "Edit Post" button. The background of the entire page is dark, matching the original screenshot.

Deleting a post.



Saving and unsaving a post.



User Profile

The user's own profile can be accessed from the top left of the page. [Bilkent Exchange Network](#)

A screenshot of the Bilkent Exchange Network homepage. At the top right, there is a user icon with the name "gorkem" and a "1" notification. To the right of the name is the Bilkent University logo and the text "Bilkent E". Below the header, there are five main navigation buttons: "Secondhand", "Lost & Found", "Donate", and "Borrow". A search bar with the placeholder "Search..." is positioned below these buttons. On the left side, a vertical sidebar displays a user profile dropdown menu with options: "View Profile", "Saved Posts", and "Logout". Below this, a list of categories is shown with checkboxes: "Books", "Electronics", "Home", "Lecture Materials", "Clothes", "Hobbies", and "Other". In the center of the page, there are two large text boxes: one containing "I failed from attendance in cs101" and another containing "what can i do?". Below these is another text box with the text "Someone guides me".

In the profile, we can access the user's own posts, description, email, join date, and username.

A screenshot of the user profile page for "gorkem". The top navigation bar includes links for "Secondhand", "Lost & Found", "Donate", "Borrow", "Section Exchange", and "Forum". The user's profile card features a profile picture of the Statue of Liberty, the handle "@gorkem", and a edit icon. Below the profile card, the user's information is listed: Description: gorkem, Email: gorkemkadir14@hotmail.com, and Joined at: 2023-12-17. A section titled "Posts" shows three recent posts: "Secondhand: GoD BlesS AmericA", "Lostfound: God Bless Americas", and "Borrow: Tost makinesi".

Here, we can navigate to the user's own posts and edit their profile.
Editing a profile. In editing, the user can also remove the user's account.

The screenshot shows a dark-themed web application interface. At the top, there is a navigation bar with links for "Secondhand", "Lost & Found", "Donate", "Borrow", "Section Exchange", and "Forum". On the far left, there is a small user icon and the username "gorkem". The main content area is titled "Edit Profile". It contains fields for "Profile Picture" (with a placeholder "Choose File No file chosen"), "Username" (set to "gorkem"), and "Description" (set to "gorkem"). Below these fields is a red button labeled "Remove Account". At the bottom of the form are two buttons: "Submit Changes" (blue) and "Reset" (red). There is also a small "Email" icon in the top right corner of the main content area.

Users can also look at other users' profiles by clicking their usernames on their posts. Link to Emir's profile [Bilkent Exchange Network](#)

The screenshot shows a dark-themed web application interface. At the top, there is a navigation bar with links for "Secondhand", "Lost & Found", "Donate", "Borrow", "Section Exchange", and "Forum". On the far left, there is a small user icon and the username "gorkem". The main content area displays a user profile for "@emir". It features a large red placeholder image for the profile picture. The username "@emir" is displayed prominently. Below the profile picture, there is a "Description:" field, an "Email:" field containing "tugluemir@gmail.com", and a "Joined at:" field showing the date "2023-12-17". To the right of the profile information is an "Email" icon. Below the profile details, there is a section titled "Posts" which contains a single post card with the text "Secondhand: BASYS-3".

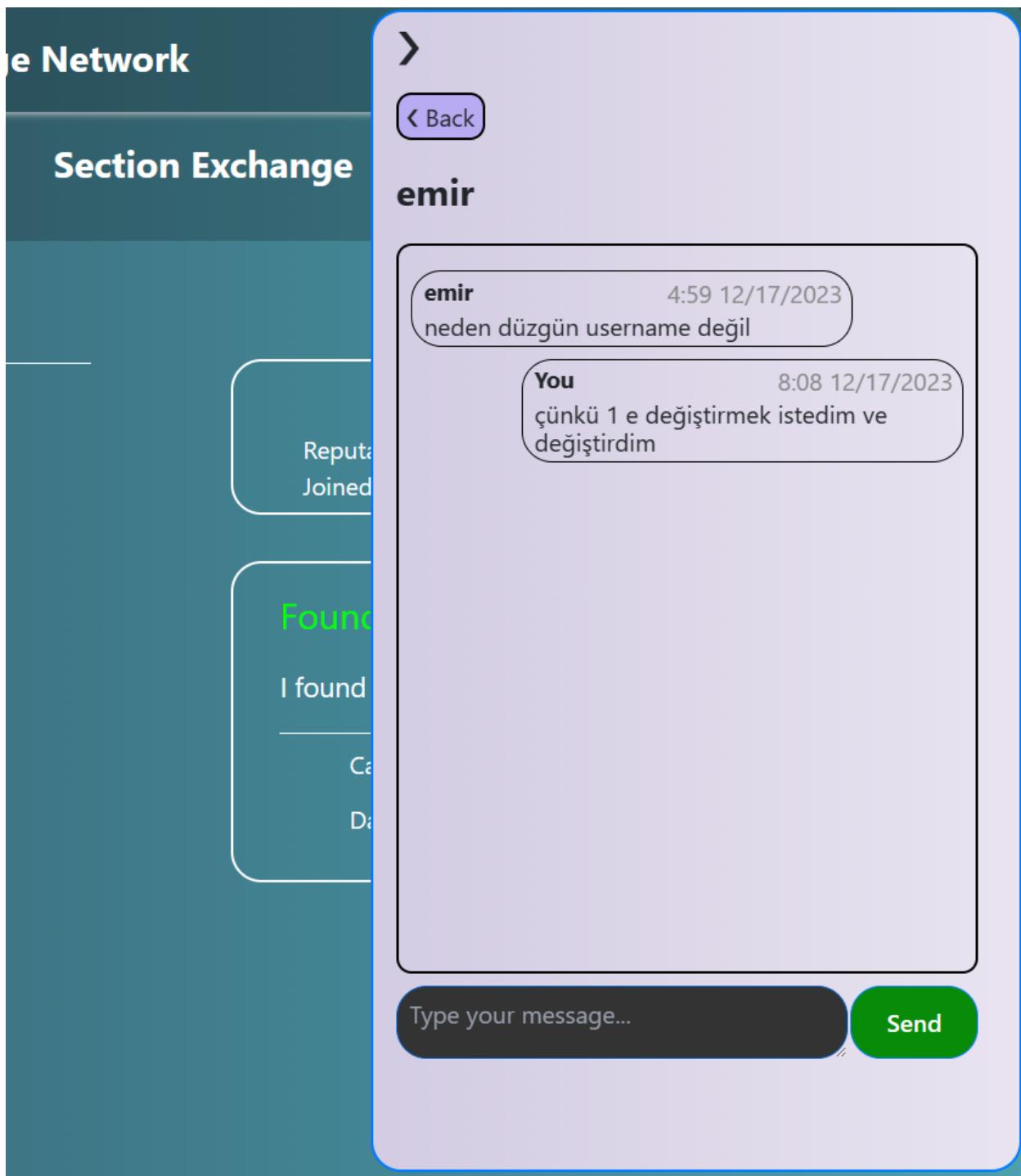
Messaging

The users can access their messenger through the message icon in the top right of the page.

The screenshot shows the Bilkent Exchange Network website. At the top, there is a navigation bar with links for "Secondhand", "Lost & Found", "Donate", "Borrow", and "Section Exchange". A user profile "gorkem" is visible on the left. The main area features a user profile for "Emir Tuğlu" with a placeholder image icon. On the right, a large sidebar titled "Conversations" displays three messages from other users:

- edizg1** 17:22 2023-12-17
sa
- emir** 17:08 2023-12-17
çünkü 1 e değiştirmek istedim ve değişt...
Found
- metee.yilmaz@gmail.com** 17:22 2023-12-17
17
I found

The user can access direct messages by clicking the bars. Here, users can send messages to other users.



The user can send others a message through their posts. The message icon is to the right of the username of the poster.

This screenshot shows the profile page of a user named 'Emir Tuğlu' on the Bilkent Exchange Network. The top navigation bar includes links for 'Secondhand', 'Lost & Found', 'Donate', 'Borrow', 'Section Exchange', and 'Forum'. The user's profile picture is a placeholder image of a person. The user's name, 'Emir Tuğlu', is displayed above the profile picture. To the right of the profile picture is a 'Report' button. Below the profile picture is a message from another user, 'emir', which reads: 'I found your id in the library'. This message is categorized under 'Found' and has a date of '2023-12-17'. The message includes fields for 'Category' (set to 'Other') and 'Date'.

The user can send others a message through their profiles' message icons.

This screenshot shows the profile page of a user named 'Emir Tuğlu' on the Bilkent Exchange Network. The top navigation bar includes links for 'Secondhand', 'Lost & Found', 'Donate', 'Borrow', 'Section Exchange', and 'Forum'. The user's profile picture is a solid red square. The user's name, '@emir', is displayed next to the profile picture. To the right of the profile picture is a message icon (envelope). Below the profile picture, there is a section for 'Description', 'Email', and 'Joined at'. The email listed is 'tugluemir@gmail.com' and the joining date is '2023-12-17'.

Saved Posts

The user can access the saved posts from the top left of the page.

The screenshot shows a mobile application interface with a dark teal background. At the top left is a user profile icon with the text "gorkem" and a "Saved Posts" button. To the right are navigation links for "ondhand", "Lost & Found", and "Donate". A logo for "Bilkent Exchange" is also visible. The main content area displays a post card featuring the Statue of Liberty and an American flag, with the text "GOD BLESS AMERICA". Below the image, the handle "@gorkem" is shown. At the bottom, there is a "Description:" field containing "gorkem".

Saved posts are shown as follows.

The screenshot shows a web browser window for the Bilkent Exchange Network. The URL in the address bar is `localhost:5000/saved-posts`. The page title is "Saved Posts". The main content area displays two saved posts:

- Donate: Iliad**
- Lostandfound: Emir Tuğlu**

Each post item has a small bookmark icon on the right side. The browser's top navigation bar includes tabs for "Secondhand", "Lost & Found", "Donate", "Borrow", "Section Exchange", and "Forum". The user profile "emiribanla" is visible on the left. The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray indicating the date and time as 17.12.2023 at 23:45.

Work Allocation

Use case diagram, non-functional requirements, tech stack, activity diagram, state diagram, class diagram, sequence diagram, design goals, high-level architecture, final class diagram

Cahit Ediz Civan

Deliverables

- Written Use Case, NFR.
- Prepared Sequence, Activity, Class, and Sequence Diagrams.
- Prepared Early prototype.
- Prepared Design goals and high-level architecture.
- Prepared Class Diagrams and Design Patterns.

Implementations

- Profile and user backend
- Authentication: Login, Signup, forgot password, email verifications backend
- Profile and user contexts used throughout the frontend
- Displaying owned posts of the current user and other users
- Testing
- Bug fixing
- Optimizations
- Admin operations

Efe Kaan Fidancı

Deliverables

- Written Use Case, NFR.
- D1: Use case diagram, non-functional requirements, tech stack,
- D2: State diagram, class diagram partially,
- D4: High-level architecture,
- D5: Solution level class diagram, design patterns,
- D6: Build instructions,
- Quality control in all deliverables,
- GitHub readme,
- Demo video editing,

Implementations

- UI improvements throughout the code (little things like font, color, margin adjustments),
- Created the logo of the application,
- BackgroundManager (UI enhancer),
- WebMailValidator (Regex checking within signup),

- Messaging UI,
- Testing multiple parts in the project,
- Bug fixing,
- Optimizations,
- Different modals (BaseModal, SuccessModal, ErrorModal, VerificationModal, etc.),
- Integration of respective modals to the related places,
- Login, signup pages UI,
- Established some logics frontend-backend connection such as search logic from database,
- Loader modal logic.

Emir Tuğlu

Deliverables

- Written Use Case, NFR.
- Prepared Activity diagram.
- Prepared Early prototype.
- Prepared Design goals and high-level architecture.

Implementations

- Created post
- Created post details UI
- Search bar UI
- Implemented create/edit/delete post functionalities.
- Created profile UI.
- Created messaging UI
- Created saving post logic and UI.
- Created reports page UI
- Designed general styling of the project.
- Created forgot password UI
- Tested the project.
- Bug fixing.
- Optimizations.
- Helped the implementation of the backend at some points.
- Removing account and admin operations.

Görkem Kadir Solun

Deliverables

- Prepared Use Case, NFR.
- Prepared Sequence, Activity, Class, Sequence Diagrams, and Mockups.
- Prepared Early prototype.

- Prepared Design goals and high-level architecture.
- Prepared Class Diagrams and Design Patterns.
- Prepared build instructions and User manual.

Implementations

- Initialized the project.
- Initialized mongoDB.
- Improved authentication logic at the front end.
- Added tailwind and CSS styling.
- Post create, edit, delete backend.
- Typescript types.
- Tested the project.
- Bug fixing.
- Optimizations.
- Filter, search, sort UI, and backend.
- Header, Navbar, Routing UI, and mechanism.
- User backend.
- Messaging backend.
- Implemented error, success, and loading models.
- Written docs.
- Removing account and admin operations.

Mete Enes Yılmaz

Deliverables

- Written Use Case, NFR.
- GitHub readme design goals,
- Login, signup pages,
- Prepared Early prototype.
- Prepared Design goals and high-level architecture.
- Prepared Class Diagrams and Design Patterns.
- Sequence Diagram
- Class Diagram Partially contributed
- Design Goals

Implementations

- UI improvements,
- Typescript types.
- Tested the project.
- Bug fixing.
- Optimizations.
- Filter, search UI, and backend.
- Improved Header, Navbar, Routing UI, and mechanism.

- Messaging UI and backend,
- Added tailwind and CSS styling.
- Post create, edit, delete backend.
- Admin backend
- Forget Password UI
- Header, Navbar, Routing UI,
- Profile, myProfile page, backend